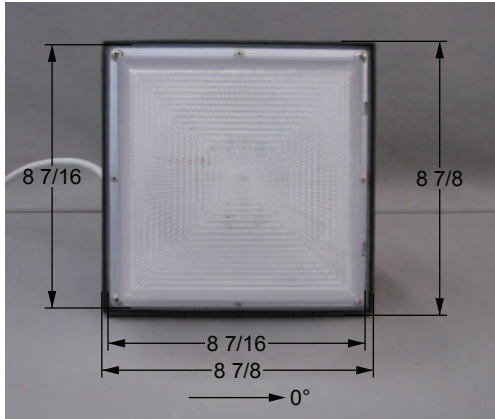




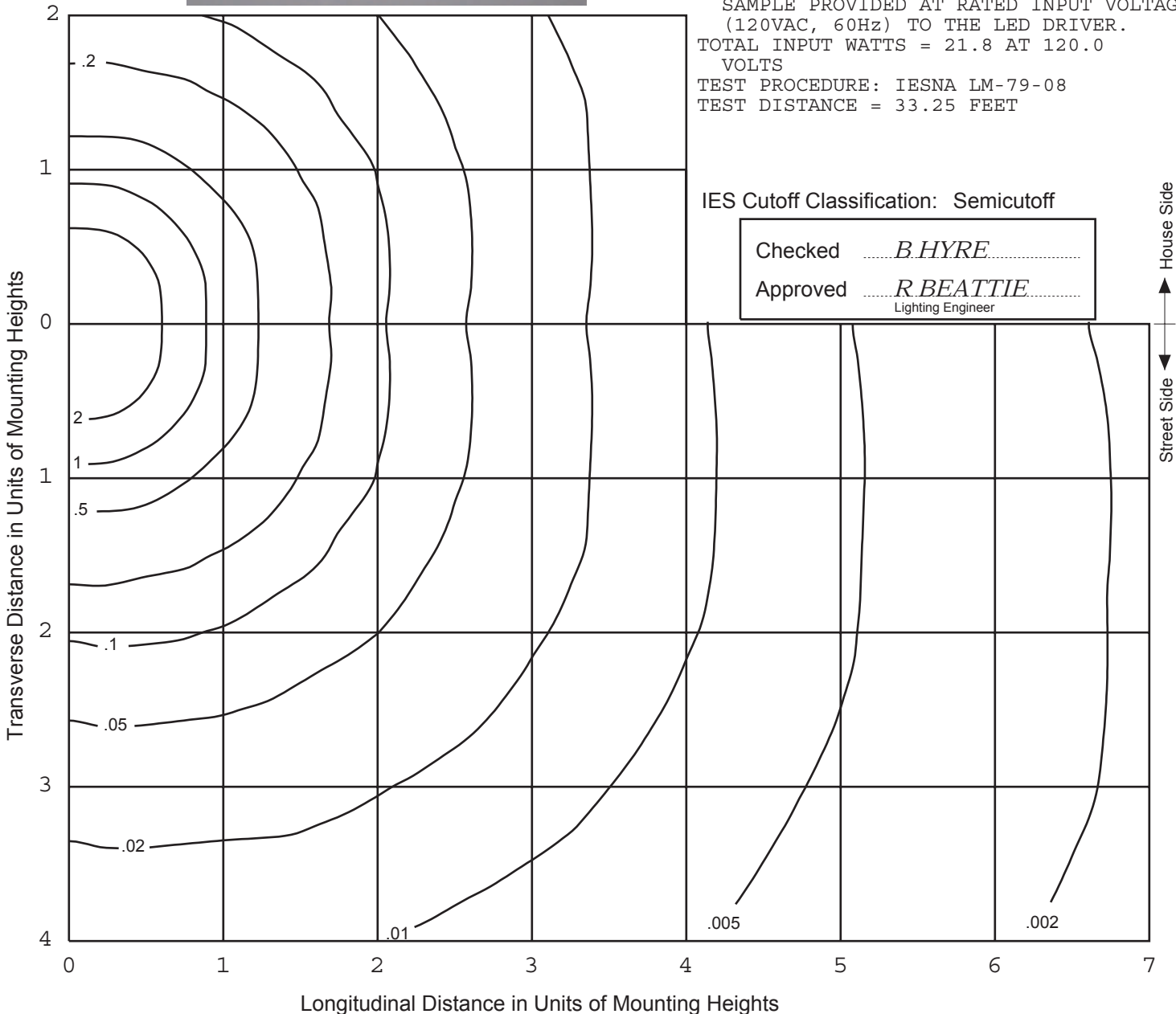
ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINATION
Values based on 10 foot mounting height.



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 CATALOG NUMBER: MLCAN20LED50
 LUMINAIRE: CAST BROWN PAINTED METAL HOUSING, FABRICATED FINNED DIFFUSE METAL CIRCUIT BOARD MOUNTING ASSEMBLY, ONE WHITE CIRCUIT BOARD WITH 9 LEDS, CLEAR PRISMATIC PLASTIC REFRACTOR.
 LAMPS: NINE WHITE LIGHT EMITTING DIODES (LEDs) EACH WITH CLEAR HEMISPHERICAL INTEGRAL LENS, VERTICAL BASE-UP POSITION.
 LED DRIVER: INVENTRONICS EUC-025S062PS
 NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE LED DRIVER.
 TOTAL INPUT WATTS = 21.8 AT 120.0 VOLTS
 TEST PROCEDURE: IESNA LM-79-08
 TEST DISTANCE = 33.25 FEET

IES Cutoff Classification: Semicutoff

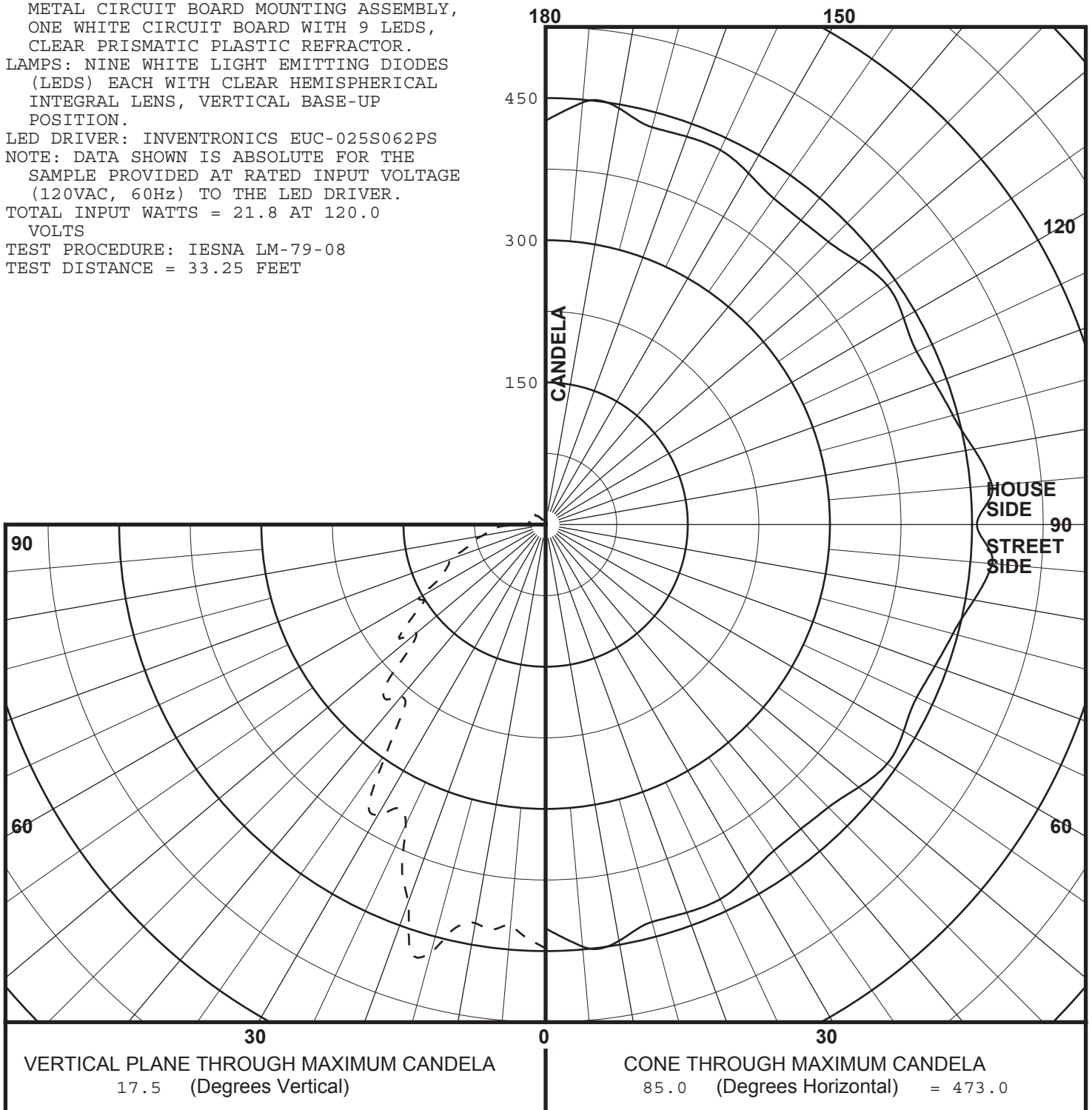
Checked *B. HYRE*
 Approved *R. BEATTIE*
 Lighting Engineer





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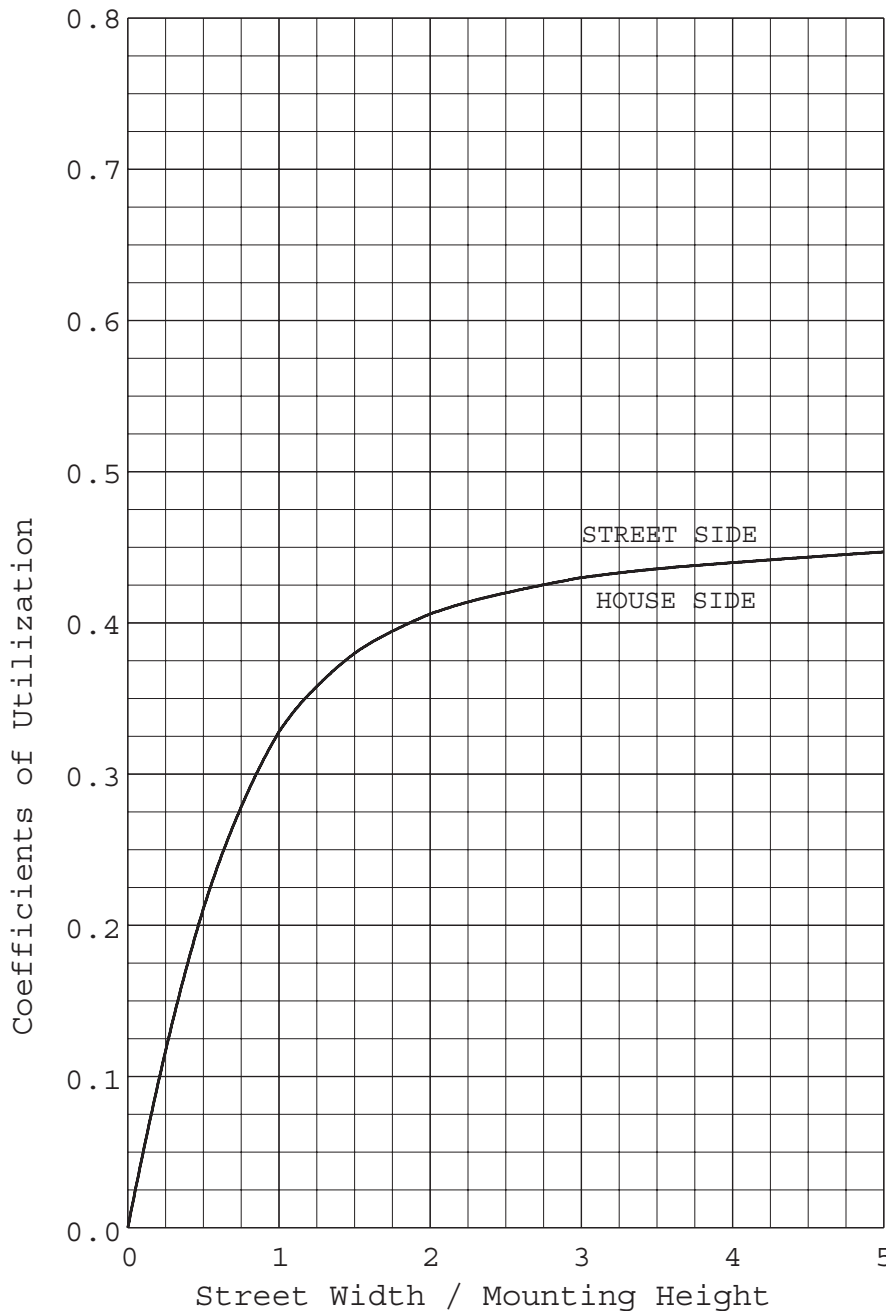
MAXIMUM PLANE AND MAXIMUM CONE PLOTS OF CANDELA



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COEFFICIENTS OF UTILIZATION AND FLUX DISTRIBUTION



| | LUMENS | PERCENT OF FIXTURE |
|----------------------|--------|--------------------|
| DOWNWARD STREET SIDE | 605 | 46.1 |
| DOWNWARD HOUSE SIDE | 605 | 46.1 |
| DOWNWARD TOTAL | 1209 | 92.2 |
| UPWARD STREET SIDE | 51 | 3.9 |
| UPWARD HOUSE SIDE | 51 | 3.9 |
| UPWARD TOTAL | 103 | 7.8 |
| TOTAL FLUX | 1312 | 100.0 |
| EFFICACY = 60.2 Lm/W | | |

ALL CANDELA AND LUMENS IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.



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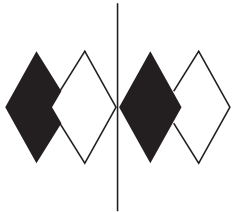
FLUX DISTRIBUTION BY SOLID ANGLE

(PER IESNA TM-15-11, LUMINAIRE CLASSIFICATION SYSTEM FOR OUTDOOR LUMINAIRES)

| | LUMENS | PERCENT OF FIXTURE | BUG ZONE RATINGS | |
|---------------|--------|--------------------|------------------|----|
| FORWARD LIGHT | 605. | 46.1 | | |
| FL (0- 30) | 170.8 | 13.0 | | |
| FM (30- 60) | 277.0 | 21.1 | | |
| FH (60- 80) | 122.2 | 9.3 | | G0 |
| FVH(80- 90) | 34.6 | 2.6 | | G1 |
| BACK LIGHT | 605. | 46.1 | | |
| BL (0- 30) | 170.8 | 13.0 | B1 | |
| BM (30- 60) | 277.0 | 21.1 | B1 | |
| BH (60- 80) | 122.2 | 9.3 | B1 | G0 |
| BVH(80- 90) | 34.6 | 2.6 | | G1 |
| UPLIGHT | 103. | 7.8 | | |
| UL (90-100) | 26.0 | 2.0 | | U2 |
| UH (100-180) | 76.7 | 5.8 | | U3 |
| TRAPPED LIGHT | 0. | 0.0 | | |
| TOTAL FLUX | 1312. | 100.0 | | |

BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS
 (PER ADDENDUM A FOR IESNA TM-15-11)

BUG RATING: B1 U3 G1



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CANDELA TABULATION

| | LATERAL ANGLE | | | | | | | | | | |
|---|---------------|------|------|------|------|------|------|------|------|------|------|
| | 0.0 | 5.0 | 15.0 | 25.0 | 35.0 | 45.0 | 55.0 | 65.0 | 75.0 | 85.0 | 90.0 |
| | 180.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| | 175.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| | 165.0 | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. | 0. |
| | 155.0 | 3. | 3. | 3. | 1. | 0. | 0. | 0. | 1. | 3. | 3. |
| | 145.0 | 8. | 7. | 7. | 6. | 6. | 6. | 6. | 7. | 7. | 8. |
| | 135.0 | 14. | 13. | 13. | 12. | 14. | 14. | 14. | 12. | 13. | 13. |
| | 125.0 | 18. | 17. | 17. | 18. | 20. | 20. | 20. | 19. | 17. | 17. |
| | 115.0 | 19. | 19. | 20. | 22. | 23. | 23. | 23. | 21. | 20. | 19. |
| | 105.0 | 19. | 19. | 21. | 24. | 26. | 26. | 26. | 24. | 21. | 19. |
| | 95.0 | 18. | 18. | 21. | 24. | 26. | 26. | 26. | 24. | 21. | 17. |
| | 92.5 | 19. | 19. | 23. | 25. | 28. | 28. | 28. | 25. | 23. | 19. |
| | 90.0 | 23. | 22. | 31. | 30. | 41. | 33. | 40. | 30. | 30. | 22. |
| | 87.5 | 31. | 45. | 43. | 60. | 58. | 67. | 60. | 64. | 48. | 48. |
| | 85.0 | 53. | 59. | 64. | 72. | 77. | 79. | 77. | 73. | 64. | 57. |
| V | 82.5 | 59. | 63. | 66. | 77. | 81. | 87. | 83. | 80. | 67. | 61. |
| E | 80.0 | 65. | 69. | 74. | 87. | 95. | 101. | 95. | 90. | 76. | 68. |
| R | 77.5 | 75. | 78. | 84. | 96. | 100. | 107. | 105. | 100. | 87. | 78. |
| T | 75.0 | 81. | 85. | 90. | 105. | 107. | 116. | 111. | 108. | 91. | 82. |
| I | 72.5 | 87. | 93. | 97. | 112. | 121. | 131. | 125. | 117. | 101. | 92. |
| C | 70.0 | 102. | 107. | 114. | 126. | 127. | 137. | 131. | 126. | 119. | 107. |
| A | 67.5 | 106. | 113. | 118. | 133. | 139. | 143. | 146. | 148. | 119. | 111. |
| L | 65.0 | 121. | 127. | 135. | 140. | 142. | 148. | 140. | 140. | 133. | 118. |
| | 62.5 | 118. | 126. | 129. | 154. | 159. | 170. | 166. | 163. | 134. | 129. |
| A | 60.0 | 148. | 157. | 158. | 163. | 168. | 177. | 170. | 173. | 166. | 154. |
| N | 57.5 | 146. | 147. | 153. | 178. | 179. | 203. | 187. | 177. | 160. | 153. |
| G | 55.0 | 171. | 181. | 185. | 200. | 205. | 208. | 223. | 218. | 180. | 173. |
| L | 52.5 | 189. | 192. | 196. | 196. | 207. | 218. | 210. | 208. | 208. | 195. |
| E | 50.0 | 183. | 184. | 191. | 216. | 214. | 238. | 219. | 205. | 188. | 178. |
| | 47.5 | 206. | 208. | 216. | 236. | 243. | 253. | 255. | 239. | 200. | 195. |
| | 45.0 | 225. | 233. | 236. | 248. | 254. | 264. | 264. | 261. | 246. | 238. |
| | 42.5 | 242. | 241. | 242. | 253. | 261. | 288. | 262. | 257. | 259. | 250. |
| | 40.0 | 232. | 238. | 244. | 275. | 288. | 317. | 269. | 263. | 245. | 237. |
| | 37.5 | 256. | 268. | 274. | 315. | 315. | 334. | 309. | 299. | 251. | 246. |
| | 35.0 | 293. | 300. | 306. | 341. | 337. | 338. | 360. | 350. | 292. | 291. |
| | 30.0 | 337. | 341. | 340. | 359. | 374. | 364. | 357. | 364. | 367. | 354. |
| | 25.0 | 374. | 378. | 372. | 377. | 410. | 433. | 399. | 372. | 347. | 349. |
| | 20.0 | 414. | 429. | 415. | 420. | 434. | 444. | 448. | 429. | 403. | 424. |
| | 17.5<< | 426. | 447. | 434. | 436. | 420. | 422. | 440. | 432. | 445. | 473. |
| | 15.0 | 441. | 446. | 440. | 425. | 426. | 403. | 422. | 430. | 461. | 467. |
| | 10.0 | 424. | 433. | 425. | 435. | 428. | 418. | 424. | 419. | 410. | 427. |
| | 5.0 | 442. | 436. | 438. | 433. | 440. | 452. | 439. | 441. | 450. | 425. |
| | 0.0 | 447. | 447. | 447. | 447. | 447. | 447. | 447. | 447. | 447. | 447. |

CONE OF MAXIMUM CANDELA

PLANE OF MAXIMUM CANDELA



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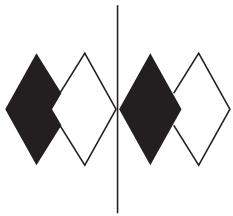
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5-DEGREE
ZONAL LUMEN SUMMARY

| | |
|---------|------|
| 0- 5 | 11. |
| 5- 10 | 31. |
| 10- 15 | 51. |
| 15- 20 | 72. |
| 20- 25 | 85. |
| 25- 30 | 93. |
| 30- 35 | 102. |
| 35- 40 | 97. |
| 40- 45 | 95. |
| 45- 50 | 91. |
| 50- 55 | 88. |
| 55- 60 | 81. |
| 60- 65 | 72. |
| 65- 70 | 65. |
| 70- 75 | 57. |
| 75- 80 | 49. |
| 80- 85 | 41. |
| 85- 90 | 28. |
| 90- 95 | 14. |
| 95-100 | 12. |
| 100-105 | 12. |
| 105-110 | 12. |
| 110-115 | 11. |
| 115-120 | 10. |
| 120-125 | 9. |
| 125-130 | 7. |
| 130-135 | 6. |
| 135-140 | 4. |
| 140-145 | 3. |
| 145-150 | 2. |
| 150-155 | 1. |
| 155-160 | 0. |
| 160-165 | 0. |
| 165-170 | 0. |
| 170-175 | 0. |
| 175-180 | 0. |

10-DEGREE
ZONAL LUMEN SUMMARY

| | |
|-------|-------|
| 0- 10 | 41. |
| 0- 20 | 164. |
| 0- 30 | 342. |
| 0- 40 | 540. |
| 0- 50 | 727. |
| 0- 60 | 896. |
| 0- 70 | 1033. |
| 0- 80 | 1140. |
| 0- 90 | 1209. |
| 0-100 | 1235. |
| 0-110 | 1259. |
| 0-120 | 1280. |
| 0-130 | 1297. |
| 0-140 | 1307. |
| 0-150 | 1311. |
| 0-160 | 1312. |
| 0-170 | 1312. |
| 0-180 | 1312. |



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